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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,702	05/23/2001	Mark David Osborn	RD-28277	6775
6147	7590	09/10/2004	EXAMINER	
GENERAL ELECTRIC COMPANY GLOBAL RESEARCH PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309			CHAVIS, JOHN Q	
			ART UNIT	PAPER NUMBER
			2124	
DATE MAILED: 09/10/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/681,702

Applicant(s)

OSBORN, MARK DAVID

Examiner

John Chavis

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 May 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-55 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-55 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09/19/01 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) ✓
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 5-23, 26-29, 32-41, 44-47, and 50-55 are rejected under 35 U.S.C. 102(e) as being anticipated by Duvillier et al. (US 2002/0073082).

CLAIMS:

1. A system for optimizing storage and retrieval of data, comprising:

a transfer manager component that acquires the data from an archive and

assigns predetermined storage values to specified parameters that form the data structure of the acquired data;

a database that stores the data acquired by the transfer manager component in accordance with the predetermined storage values; and

Duvillier

See the title and the abstract. Also, see sect. 0020.

See sect. 0022, which adds a mirror file (by acquiring data from an archive).

See sect. 0046, which indicates that a unique ID (predetermined storage value) is assigned to each object version (specified parameters).

See the persistent memory database in sect. 0047.

a middle tier component that extracts the data in the database and interpolates the data in accordance with the predetermined storage values.

Duvilliers component that performs the translations from logical object IDs to physical object IDs is considered the Middle tier that interpolates (translates) the data in accordance with predetermined storage values (logical ids).

2. The system according to claim 1, wherein the transfer manager component generates a query for requesting the data from the archive.

See the requests (queries) in sect. 0079

5. The system according to claim 1, wherein the predetermined storage values comprise at least one of a time block value and a filter value.

See sect. 0049.

6. The system according to claim 1, wherein the database uses the predetermined storage values as values to index using bit map indexes.

See fig. 3, specifically the object table (item 301)

7. The system according to claim 1, wherein the middle tier component generates a query for requesting the data from the database.

See again fig. 3, in which the Data server cache functions as one form of middle tier.

Claims 8, 12, 15, 19, 32, 35, 39-40, 50, 53-55 are rejected as claim 5 above.

The features of claims 9, 13, 16, 20, 23 are taught via claim 5 in view of claim 2.

As per the features of claims 10, 17, 26, 33, 37, 44, 51, see claim 5 in view of claim 6.

The features of claim 11, 14, 18, 21-22, 27, 34, 36, 38, 41, 45, 47, 52 are taught via claim 5 in view of claim 7.

Claims 28, 46 are rejected as claim 1 above.

The features of claim 29 are taught via claim 7.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3-4, 24-25, 30-31, 42-43, 48-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duvillier as applied to claim 1 above, and further in view of Tarim (6,513,041).

Claims

3. The system according to claim 1, wherein the transfer manager component examines data retrieved from the archive for duplicates with the data stored in the database.

Duvillier/Tarim

Duvillier provides for modifications based on program logic and on predetermined criteria; however, he does not explicitly indicate that a check for duplicates is made. However, the feature is taught by Tarim in an analogous art to reduce storage space requirements (col. 9 lines 51-62 and col. 10 line 56-col. 11 line 19). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to provide for eliminating redundancies in Duvilliers system for the same reason it is utilized in Tarims system, to make the system more efficient by eliminating wasted storage space.

4. The system according to claim 3, wherein the transfer manager component discards duplicate data.

See the recited portion above.

In reference to claim 24-25, 30-31, 42-43, 48-49, see the rejections of claims 3-4.

Conclusion

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Chavis whose telephone number is (703) 305-9665. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jqc
September 7, 2004



JOHN CHAVIS
PATENT EXAMINER
ART UNIT 2124